self-locking bolt 310 increases to a predetermined value after the locking projections 304 have completely sunken into the upper surface of the plate B and the bearing surface 303 has come into contact with the upper surface of the plate B.

IN THE CLAIMS

17. (twice amended) A self-locking bolt having:

a head having a locking function; and

a threaded part extending from the head and provided with an external thread of a pitch P, the external thread being such as to mate with an internal thread of a member to be mated;

wherein n locking projections are formed at equal angular intervals on a bearing surface of the head,

the locking projections are separated from one another by planar portions of the bearing surface,

heights of the locking projections from the bearing surface increase gradually in a direction opposite a fastening direction in which the head is rotated for fastening to maximum heights,

there are edges at the maximum heights,

the heights of the locking projections decrease steeply from the edges in the direction opposite the fastening direction,

the maximum heights of the edges are equal to or less than P/n, and

a total area of the planar portions is larger than a total planar projected area of the locking projections.

23. (twice amended) In a self-locking bolt for mating in a threaded hole comprising:

a head having a bearing surface; and

a threaded part extending from the bearing surface and provided with an external thread of a pitch P for the mating in the threaded hole when the head and threaded part are rotated in a fastening direction, the improvements wherein:

there are n locking recesses at equal angular intervals about the bearing surface, spaced from one another by planar portions;

depths of the locking recesses from the bearing surface decrease gradually in a direction opposite the fastening direction from maximum depths to minimum depths with edges of the locking recesses at junctions of the bearing surface and end walls of the locking recesses at the maximum depths of the locking recesses for bulging into the locking recesses protrusions of a second member that is between the bearing surface and the first member when the head and threaded part are rotated in the fastening direction; and

a total area of the planar portions is larger than a total planar projected area of the locking projections.